PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DALE E. JAMISON	09/17/2015
CATO RUSSELL MCDANIEL	11/04/2015
XIANGNAN YE	09/18/2015
SHARATH SAVARI	09/18/2015
CHESNEE LAE DAVIS	09/22/2015
JONATHAN PAUL WALKER	09/17/2015

RECEIVING PARTY DATA

Name:	HALLIBURTON ENERGY SERVICES, INC.
Street Address:	3000 N. SAM HOUSTON PARKWAY E.
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77032-3219

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16904349

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 2819624503

Email: csayala@ctumeylawgroup.com

Correspondent Name: C. TUMEY LAW GROUP PLLC - HES C. TUMEY L

Address Line 1: PO BOX 890226

Address Line 4: HOUSTON, TEXAS 77062-9998

ATTORNEY DOCKET NUMBER:	1560-103304
NAME OF SUBMITTER:	CHAD SAYALA
SIGNATURE:	/csayala/
DATE SIGNED:	06/17/2020

Total Attachments: 7

PATENT REEL: 052968 FRAME: 0429

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PATENT REEL: 052968 FRAME: 0430

As the below named inventor, I hereby declare that:				
declaration is directed to:				
The attached application to be filed as a United States application or PCT				
international application, or				
United States application or PCT international application number				
; and,				
CARBONATE LOST CIRCULATION MATERIAL MORPHOLOGIES FOR				
BTERRANEAN FORMATION OPERATIONS				

Regarding that application, I declare the following:

- The above-identified application was made, or authorized to be made, by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Moreover, Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 3000 N. Sam Houston Parkway E., Houston, TX 77032-3219 (hereinafter "Assignee") is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, by these presents do sell, assign and transfer and convey unto Assignee, its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application identified above, and any national phase, divisional, continuing, continuation-in-part, or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefore; said invention, application and any and all Letters Patent issuing there from to be held and enjoyed by Assignee, for its own use and benefit, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

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DM_US 64162929-1.096378.0450

PATENT REEL: 052968 FRAME: 0431

I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

I do further agree to communicate to Assignee, its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any patent office proceeding or litigation.

I do further grant the power to amend the following information on this document: the title of the application and the filing designation (attached or by reference to an application number) as required by or in view of any rules or requirements of the United States Patent and Trademark Office or any other patent regulatory authority.

Executed this	day of Scotember 2015
	Jul 5 Jamie
	DALE E. JAMISON
STATE OF TEXAS)
COUNTY OF Harris)

Before me personally appeared said DALE E. JAMISON and acknowledged the foregoing instrument to be a free act and deed this $\underline{1744}$ day of $\underline{September}$, 2015.

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8/9/A)	Notary Public	texas 🔏
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Jacy Didwell
(Notary)

I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

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Executed this	$\frac{1}{4}$ day of $\frac{1}{6}$	MANUELY, 2015 CATO RUSSELL MCDANIEL	
STATE OF)		
COUNTY OF)		
Before me personally app	eared said CAT	O RUSSELL MCDANIEL and ac	knowledged the
foregoing instrument to b	e a free act and	deed this day of	, 2015.
Seal		(Notary	·)

2 of 2

I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

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Executed this	day of <u>September</u> , 2015	
	XIANGNAN YE	
STATE OF TEXAS)	
COUNTY OF HAVIS)	

Before me personally appeared said XIANGNAN YE and acknowledged the foregoing instrument to be a free act and deed this 184 day of September , 2015.

Seal TRACY TIDWELL Notary Public. State of Texas My Commission Expires October 12, 2017

Tracy Didwell
(Notary)

I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

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Executed this	day of	<u>September</u> , 2015	
		garal	
	Sh	HARATH SÁVARÍ	
STATE OF TX)		
COUNTY OF Harris)		

Before me personally appeared said SHARATH SAVARI and acknowledged the foregoing instrument to be a free act and deed this 18th day of Sahauber, 2015.

Seal



(Notary)

I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

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I do further grant the power to amend the following information on this document: the title of the application and the filing designation (attached or by reference to an application number) as required by or in view of any rules or requirements of the United States Patent and Trademark Office or any other patent regulatory authority.

Executed this 22nd	day of <u>September</u> , 2015
	Cheen u. Low Davier
	CHESNEE LAE DAVIS
STATE OF TEXAS)
COUNTY OF Harris)

Before me personally appeared said CHESNEE LAE DAVIS and acknowledged the foregoing instrument to be a free act and deed this 200 day of 800 da

Seal TRACY TIDWELL	3 Jacy Didwell
Notary Public, State of Texas My Commission Expires October 12, 2017	(Notary)

I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

I do further agree to communicate to Assignee, its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any patent office proceeding or litigation.

I do further grant the power to amend the following information on this document: the title of the application and the filing designation (attached or by reference to an application number) as required by or in view of any rules or requirements of the United States Patent and Trademark Office or any other patent regulatory authority,

Executed this174h	day of <u>September</u> , 2015	
	atu velen	
	JONATHAN PAUL WALKER	
STATE OF TEXAS)	
COUNTY OF Harris)	

Before me personally appeared said JONATHAN PAUL WALKER and acknowledged the foregoing instrument to be a free act and deed this 17th day of September , 2015.

Seal_	_ Jaeu
TRACY TIDWELL Notary Public, State of Texas My Commission Expires	(
October 12, 2017	

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RECORDED: 06/17/2020